Issue 3 | December 2012

INFOLINE

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ALLOY WHEEL RIM PROTECTORS pg 12 & 13
THE BRIGHT SIDE OF LIGHT pg 14 to 16

Haldex

EB+ GEN 2

Electronic Braking Systems
Advanced Trailer Braking Solutions

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For more information (603) 6188 8388 ysl@yslsb.com.my

Electronic Braking Systems

Roll Stability Control for Trailers

The trailer roll stability system is designed to intervene if it detects a risk of rollover. The system constantly monitors the trailer's movements and speed through an onboard accelerometer and wheel speed sensors, and when needed sends instant commands via the EBS unit to control the braking and assists in reducing the potential of the trailer from rolling over.

Haldex EB+ Generation 2 assembly has built in stability control for the trailer as a recommended option. Usually the driver is unaware of the trailer instability due to a number of varying conditions, and as the event normally begins at the trailer it is sometimes too late for the driver to intervene and take control over the rollover. This makes it important to have stability control on the trailer rather than just the tractor as the system works independently of the driver applying the brakes dependant on the system inputs.

1. Trailer carrying load fitted with stability

2. Factors such as load placement and shifting of weight will move the vertical down force at the wheels of the trailer

3. EB+ applies the trailer brakes to slow and stabilise the trailer

Stability Formula = (v^2/r).h < g.t

The EB+ unit has technology that can calculate the point at which the trailer is at a potential rollover and automatically slows the speed of the vehicle by applying individual brakes without the need of driver intervention.When the critical threshold values are reached the system will intervene. A stability system is a cost effective saving for the fleet owners by reducing the potential of rollover accidents and adding an enhanced safety feature to their fleet.

CUSTOMISED FEATURES

Super Aux

Super Aux is a second power supply and allows multiple trigger signal inputs for the EB+ Generation 2 assembly.

The first Haldex EB+ system offers a dedicated secondary power supply port. This Power B port uses the power source from the stop lights as almost all drivers connect at least the light system of the truck and trailer before driving. This ensures that the 'Electronic Load Sensing' and 'ABS' functionalities are still available even if the ISO 7638 power supply may fail or is not used at all. This option offers a big advantage in safety.

The Super Aux connection was specifically developed as there are a number of applications where trigger signals from the truck and trailer are required.

Some examples of these applications are

- Traction Support with front lift axles
- Steer axle lock during reversing or on driver demand
- To switch on an 'Electric Brake Demand', e.g. for extra resistance in a road-laying combination
- Tipper "Quick Dump" if body is up

In the past prior to Super Aux it required extra work and cost to obtain these inputs in the system, because additional cables / relays were needed.

With Super Aux these additional trigger 'cores' are added to the "Power B - Super Aux" cable and reach EB+ without creating any extra installation work.

E.g. Super Aux = One cable (6core) a backup power + 3 Inputs + 24V Output (low current)

The significant point is that these three trigger inputs are not solely dedicated to a specific application, as they can be used and programmed very easily using DIAG+ to suit the application required. Logical operations and combinations are also possible.

For example: Steer axle lock

Input A could be connected to the 'reversing light'

Input B could be connected to a switch in the cab

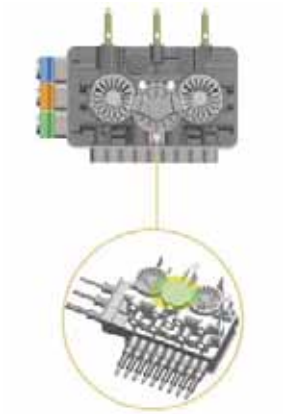
Result: Steer axle is locked if the

- Truck is reversing or
- Driver activates his switch or
- Above a certain speed threshold is programmed

Therefore Super Aux offers even greater flexibility and options within the system and at the same time reducing overall costs.

Source from : 000700350_GB/09.08/Redditch

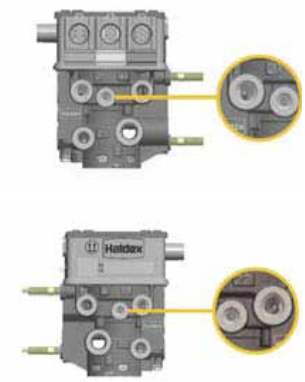
MAIN FEATURES



QRV

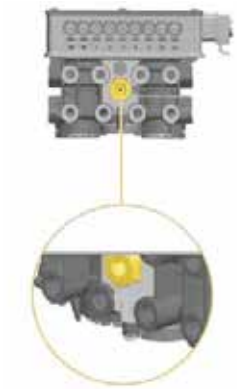
An integral quick release valve provides a rapid installation and reduces the need for separate pipe fittings and connections.

In addition the spring brake air, once exhausted, is silenced using the EB+ silencing mechanism.



Service Brake Test Points

The Gen 2 system provides two additional service brake ports, which can allow direct connections to the exterior test points.



DCV/ACV Distribution Manifold

An integral anti-compounding spring brake distribution manifold eliminates the need for a secondary manifold and associated fittings, hence saving installation time and potential errors.

Bulk Head Mounting

Three stud mountings, provide interchangeability with competitor systems.

In addition, the mounting method allows much easier installation.

Individual Electrical Retention

The Gen 2 system utilises well-recognised EB+ connectors, and the slide lock mechanism has been improved to allow each connector to be removed and inserted individually.

This improves installation time and reliability.

Reservoir Connections

The Gen 2 system provides up to three reservoir connections, which allows complete installation flexibility for vehicle manufacturers.

This flexibility not only provides a rapid installation, but allows the reduction of pipe lengths.

Connection Alignment

The Gen 2 system has been deliberately designed to ensure ease of vehicle installation.

All the ports and electrical connection positions have been chosen to provide easy identification and are aligned to allow brake pipes to be bundled together, thus providing an efficient cost effective, overall installation package.

ECU

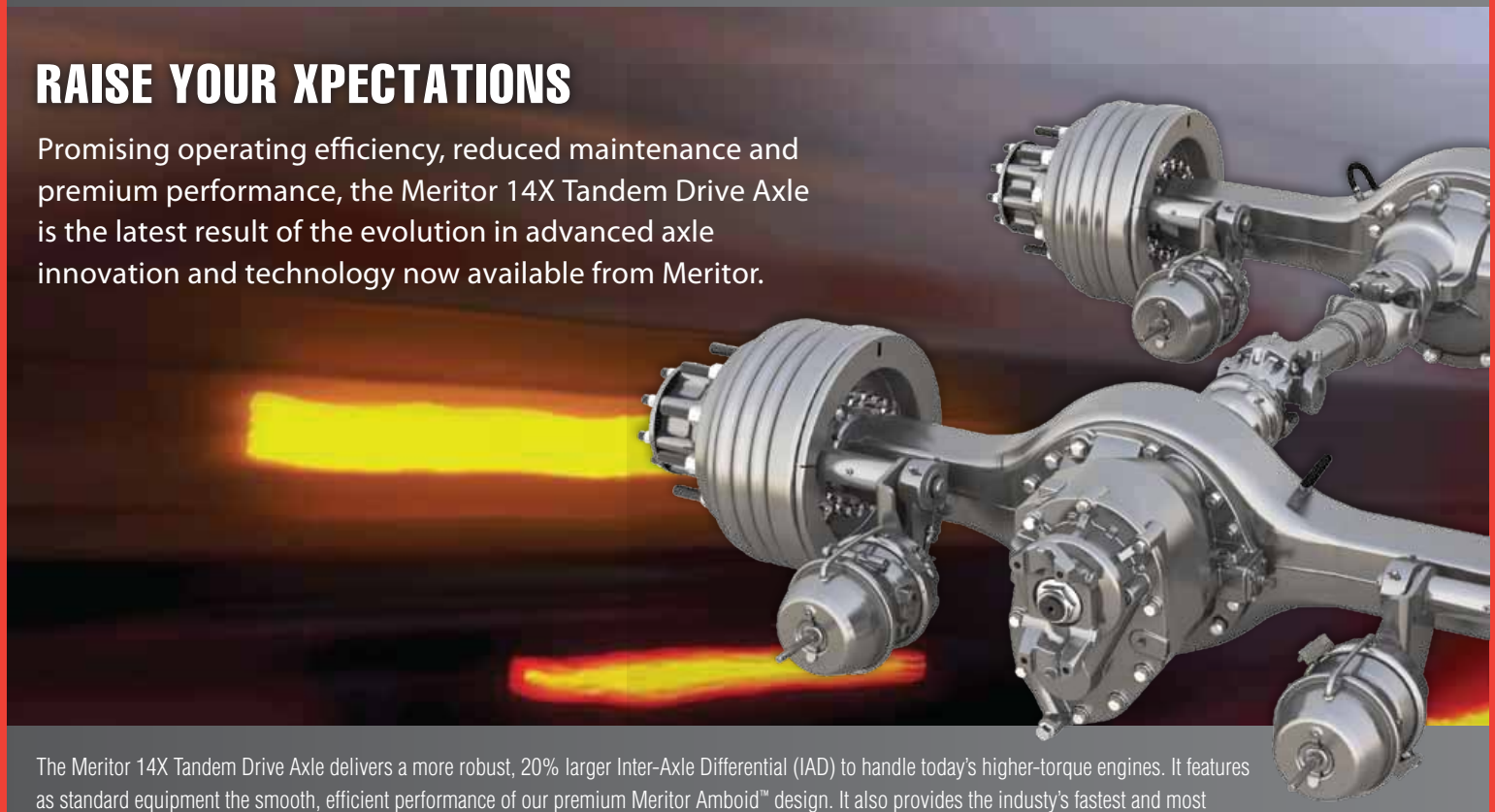
The Gen 2 system provides a sealed for life encapsulated ECU, thus eliminating interconnections.

For more information (603) 6188 8388 ysl@yslsb.com.my

MERITOR 14X TANDEM DRIVE AXLE

RAISE YOUR XPECTATIONS

Promising operating efficiency, reduced maintenance and premium performance, the Meritor 14X Tandem Drive Axle is the latest result of the evolution in advanced axle innovation and technology now available from Meritor.



The Meritor 14X Tandem Drive Axle delivers a more robust, 20% larger Inter-Axle Differential (IAD) to handle today's higher-torque engines. It features as standard equipment the smooth, efficient performance of our premium Meritor Amboid™ design. It also provides the industy's fastest and most complete range of axle ratios–from 2.47 to 7.17. And it is the lightest-weight axle in its class. Plus, the DualTrac™ housing option addresses wheel bearing overload associated with the use of single wide-based tires. Which all adds up to unprecedented axle performance.

MERITOR 14X EFFICIENCIES ADD UP EVEN FASTER WITH OTHER MPG SERIES COMPONENTS

The 14X is a flagship member of the MPG SERIES. Each of the MPG SERIES components is engineered to deliver superior operating efficiency with less downtime to equip you with a productivity gain in today's workplace. But the more MPG SERIES components you add, the more bottom-line results you will see. Working collectively, MPG SERIES components really add up to provide superior operating efficiency for your fleet. And your business. And with components that reduce maintenance while adding durability, your life cycle costs are primed for improvement.

For more information (603) 6188 8388 ysl@yslsb.com.my

FEATURES AND BENEFITS

DESIGN FEATURES FOR INCREASED PERFORMANCE DEMANDS.

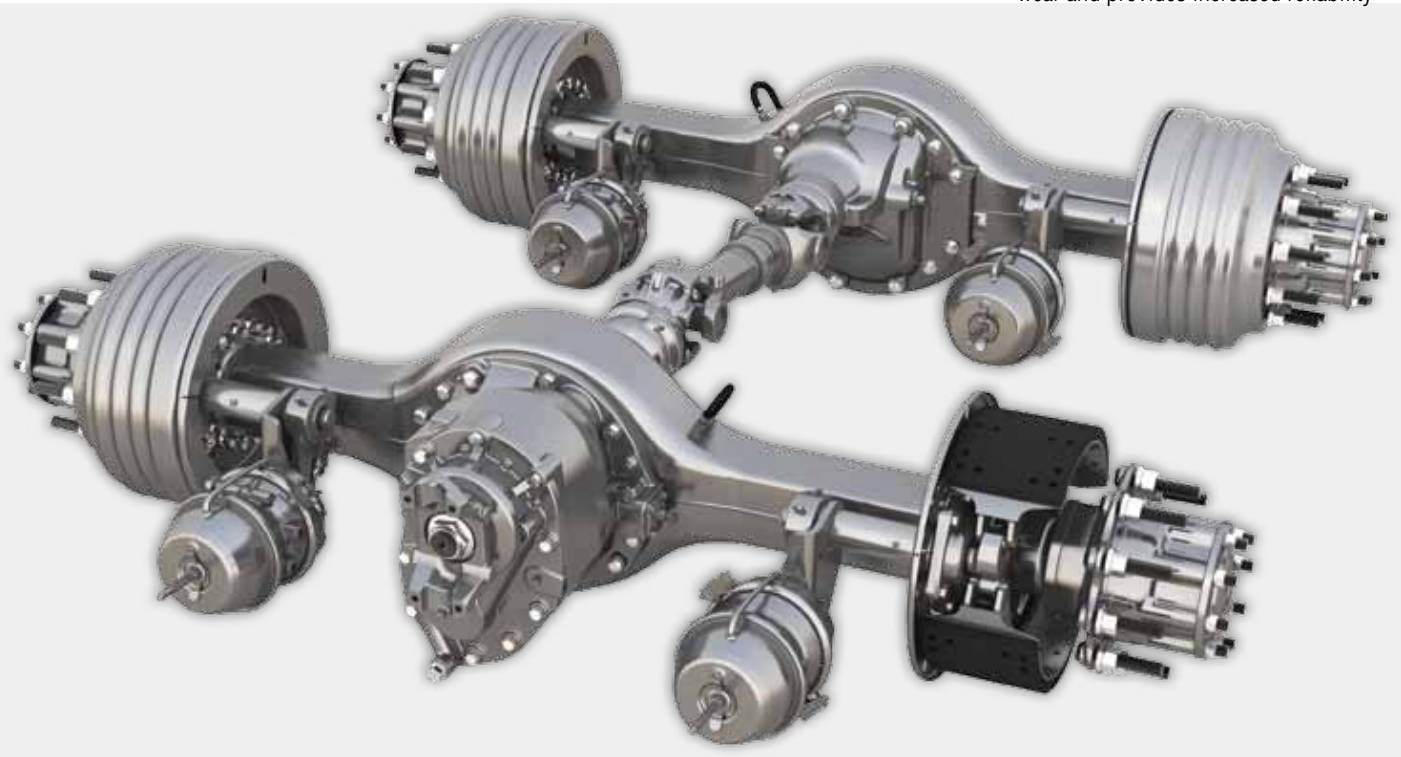
- Larger main differential bearings for up to 30% more capacity
- Smooth internal surfaces of the carrier castings and elimination of main differential case ribs minimize lubricant churning loss
- Low spiral-angle-design gearing helps ensure increased efficiency and improved bearing life
- Multiple internal magnets for increased debris collection and smooth running

COMPLETE RATIO RANGE.

- New 2.47 ratio is the fastest axle ratio in the industry and the most efficient solution for vehicles with direct drive transmissions
- 2.47 - 7.17 is the widest range to match your application and specific engine manufacturer's recommendations
- 2.47 - 4.11 Amboid pinion position
- 2.64 - 7.17 Hypoid pinion position

MORE ROBUST INTER-AXLE DIFFERENTIAL (IAD).

- 20% larger Inter-Axle Differential (IAD) for increased capacity, with fewer parts
- Ability to handle up to 2050 lb. ft. of torque in certain applications
- Lubrication reservoir keeps lubricant in the input shaft bearing at all times for increased lubrication flow, which reduces wear and yields greater reliability; no need to wait for splash to deliver lubricant
- New needle bearings system in the Inter-Axle Differential helical gear reduces heat and wear and provides increased reliability



DUALTRAC HOUSING OPTION.

Wide-based single tires are gaining popularity due to their weight-saving and reduced rolling resistance characteristics, but they're also hard on wheel bearings, decreasing their life cycle, structural rating and leading to spindle damage.

The Solution?

Meritor's DualTrac Housing option, equipped with 0"-0.56" outset wheels, repositions the loading on wheel bearings thereby easing their workload. It's also lighter and more economical than wide-track housing.

- Full 40,000 lb. axle rating
- Lighter than 11 mm standard track housing
- Allows conversion between wide-based single tires and duals within legal axle spread dimensions
- Offered in 9.5 mm and 11.0 mm housing wall thickness options depending on application

Meritor™

Source from : Litho in USA. Revised 03-11
SP-1084 (68322/11900)
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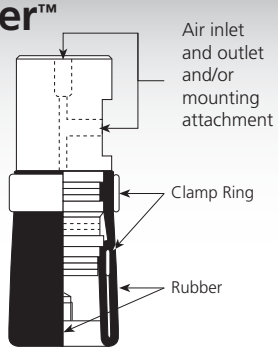
For more information (603) 6188 8388 ysl@yslsb.com.my

Firestone Industrial Application

AIRPICKER™ AIRGRIPPER™

END EFFECTORS

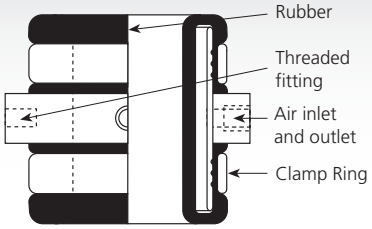
AirPicker™



Fully inflatedair pressure: 35 psi (unrestricted)

Deflated air pressure: 0 psi

AirGripper™



Fully inflated air pressure: 10 psi (unrestricted)

Deflated air pressure: 0 psi

Advantages

- Conform to Any Shape
- Multiple Sizes Handled with One Gripper
- Delicate Handling
- Wide Size Range
- High Load Capacity
- Non-marring Contact
- No Lubrication Required
- Low Cost
- Long Life in a Dusty Environment

Precautions

Pressure

AirPicker™ and AirGripper™ end-effectors should not be used past their maximum recommended working pressure. This pressure varies depending on the fabric reinforcement and rubber material.

Media

Air is the normal media used to inflate the Firestone end-effectors. Nitrogen can also be used to decrease the potential for oxidation and reduce permeation.

Temperature

The minimum and maximum recommended working temperatures for the following rubber materials are 0°F to 125°F (-18°C to 52°C) for neoprene and -22°F to 320°F (-30°C to 160°C) for silicone.

Contact Surface

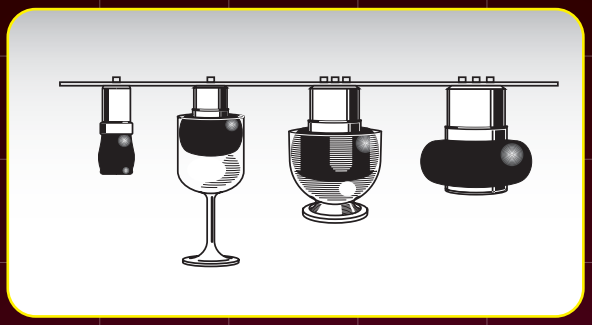
The preferred contact surface for AirPicker and AirGripper end-effector is smooth and dry. Any threads, burrs or sharp objects will decrease the useful life of the rubber bladder. Protective neoprene sleeves are available to increase the life of the bladder when the contact surface is detrimental.

Minimum and Maximum Working Diameter

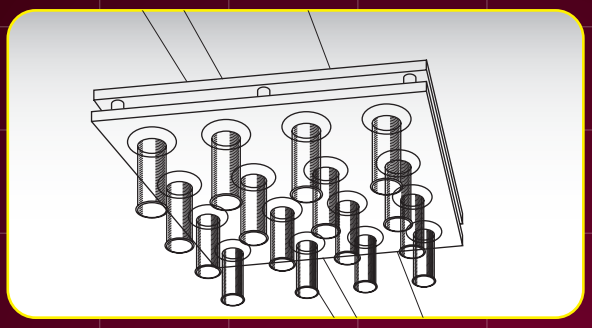
The maximum working diameter range given for each end-effector insures a firm hold on the object as well as maximizing the life of the rubber. Exceeding this diameter range will increase the strain on the rubber and cause premature damage. Using an end-effector below the range of the working diameter will abrade the rubber as it is placed into and removed from an object.

For more information (603) 6188 8388 ysl@yslsb.com.my

AirPicker™ and AirGripper™ end-effectors move objects of all shapes and sizes.

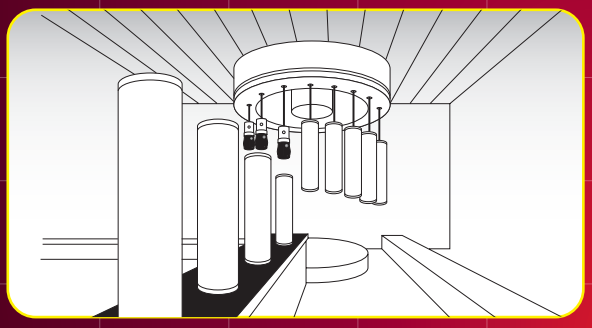


Conforming to multiple sizes and shapes



Transferring hot, freshly molded test tubes

Handling and packaging bottles



Handling photosensitive copier drums

Unrestricted Inflation

Repeated unrestricted inflation will prematurely damage a Firestone end effector. If the application requires unrestricted inflation, a protective rubber sleeve or a casing surrounding the rubber is recommended. The sleeve or casing will restrict the diameter of the rubber and reduce the strain.

Preconditioning

All of the fabric reinforced rubber bladders have small pieces of cotton threads, called pick cords, used to hold the nylon tire chords of the fabric plies together during production. Before the end-effectors are able to reach recommended working diameters, these pick cords must be broken through preconditioning. In order to break these pick cords the end-effectors must be inflated unrestricted at the maximum recommended working pressure for 30 cycles. NOTE: Excessive unrestricted inflation will harm the rubber.

Contaminates

Neoprene, silicone and EPDM have their advantages and disadvantages when in contact with lubricants, acids, solutions, etc. Please contact Firestone with specific applications.

Storage

The best storage environment is a dark, dry area at normal room temperature.

Firestone

World's Number 1 Air Spring.

FIRESTONE INDUSTRIAL PRODUCTS COMPANY

Source from : Pneumatic Working Devices for Firm & Precise Holding PG0504

Firestone Annual Asia Pacific Distributor Conference 2012

Firestone
World's Number 1 Air Spring.
FIRESTONE INDUSTRIAL PRODUCTS COMPANY

18th October 2012 at New Delhi, India

In year 2012, the conference was successfully held in Crown Plaza Gurgaon in New Delhi, India. It marks best performed year in half decade with best ever achievement for Asia Pacific region. Representatives from India, Thailand, Malaysia and Taiwan were in the conference with great presentation.

In the conference, topics related to automotive, locomotive and industry were discussed. In these discussions, we share lot of information regarding the Air Spring's usage and creative applications invented conforming in most industry and automotive field.

Besides, we are brought a topic such like budget planning in few years in the future. The discussion includes the individual plans, Asia plans, company plans and investment and the size of plants. The topic was performed by Ms. Bhawana *(Area Sales & Marketing Manager)* and Mr. Arun Kumar *(Managing Director of Firestone Asia Strategic Business Unit)*.

Group discussion came up next after budget planning presentation completed.

This breakout session held to understand more on customer feedback.

For more information (603) 6188 8388 ysl@yslsb.com.my

Binotto® THE TIPPING POWER

MARIZ® THE TIPPING POWER

HYDRAULIC CYLINDERS

1960 MARIZ, based in Fontaniva (Padova) started producing Telescopic Cylinders for light tipping vehicles. In those years the Binotto quality reached the main English, Dutch and German bodybuilders. They would have represented the base for the solid export development in the following years

1970. At the beginning of 70's, MARIZ started designing and producing telescopic cylinders for vehicles gvW 3,5 tons and for the industrial market. In a short time, MARIZ became the reference brand name for all the Italian body-builders of light tipping vehicles. Thanks to the most important international exhibitions, Mariz started exporting its products in many European Countries. In the meanwhile, MARIZ started supplying the major Italian light-trucks bodybuilders and becoming a European leading company.

1994. The Companies Binotto and MARIZ joined together under the control of the Marfin holding company.

MARIZ CYLINDERS FOR DUMPER

MARIZ the leading European Manufacturer of underbody telescopic cylinders, offers the widest range of any single producer. The MARIZ underbody cylinders for the light industrial tippers set the standard for the industry. An impressive range of models covers all the different customers requirement for example 25 different types for 3.5 tonne GVW vehicles and 15 different types for two way tipping trailers.

MARIZ DOUBLE ACTING CYLINDERS

MARIZ produces a range of double-acting cylinders suitable for industiral vehicles such as Hooklifts, Skip Loaders and Garbage Compactors.
Thanks to the perfect choice of raw materials and special treatments the MARIZ hydraulic cylinder can operate in the most extreme conditions.

MARIZ CYLINDERS FOR AGRICULTURAL TRAILERS

Trusted partner of the most important international manufacturers of agricultural trailers MARIZ is capable of adapting its products to the particular needs of each customer. This has been achieved thanks to the flexibility of automated system operating with the most sophisticated production technology.

MARIZ HYDRAULIC SUSPENSIONS

The MARIZ research/developement/ engineering department is available to meet customers needs to reach the perfect solution for any application such as hydraulic suspension, hydraulic legs and many others.

choose to B stronger

For more information (603) 6188 8388 ysl@yslsb.com.my

Alloy Wheel Rim Protectors

RIMBANDS®
Alloy Wheel Rim Protectors

Rimbands are a stretchy band of tear resistant silicone rubber that is fitted around the circumference of alloy wheels adding a styling trim that helps protect from damage caused by hitting kerbs when parking and going over potholes in the road whilst driving.

Rimbands are designed to be supplied and fitted by wheel and tyre dealers only and are available in many colours.

Rimbands 3 stage fitting systems;
Stretch, Grip, Clamp.
Rimbands stretch over the wheel rim.
Rimbands grip the wheel face.
Rimbands are clamped in place using the tyre.

Universal fitting - fits most alloy wheel types and sizes
Rimbands are supplied as one size fits all and will stretch to fit from 15" to 22" wheels.

For more information (603) 6188 8388 ysl@yslsb.com.my

RIMBLADES

With more and more automotive manufacturers fitting passenger vehicles with larger diameter alloy wheels there is a growing market for alloy wheel rim protectors.

Rimblades are an easy to fit self adhesive protector for alloy wheels. They will protect alloy wheel rims from kerb damage and cover up existing marks and damage saving the need for expensive wheel refurbishment or wheel replacement.

Designed and manufactured in the UK, Rimblades offer unrivalled performance with good value and are an easy to install DIY product.

Available in a range of 6 colours as one universal size that fits any alloy wheel rim size up to 22" diameter, Rimblades are the latest innovation in alloy wheel protection and style.

Rimblades are made from a thermoplastic vulcanizate (TPV) with a very high bond (VHB) double sided tape factory applied on the wheel side. To fit, simply prepare wheels with wipes provided in the kit, peel the backing tape and stick to the wheel rims.

In addition to adding great protection from damage, Rimblades can add a ring of colour to make alloy wheels look very appealing.

Protection with style.

For more information (603) 6188 8388 ysl@yslsb.com.my

VIRIBRIGHT

The bright side of light

LED Bulbs

VIRIBRIGHT™ LED Bulbs are a direct replacement for 40-75W incandescent and 9-18W CFL bulbs and provides up to 85% energy savings over incandescent. With long life, low energy consumption, no hazardous mercury, VIRIBRIGHT™ LED Bulbs are setting the benchmark for price and performance.

General Specifications	5W	8W	10W
Base Type		E27 / E14	
Color Temperature (K)	2800	4000	6000
Lumen (Lm) 2800K	300	500	820
4000K	360	650	900
6000K	360	650	
CRI		>80	
Beam Angle (°)		270°	
Lifespan		Up to 25,000 hrs	
Certification	CE/UL	CE/UL	Pending CE/UL

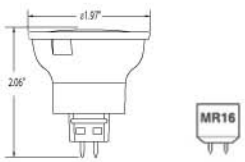
Electrical Characteristics	
Wattage	5W / 8W / 10W
Voltage	220-240V AC
Working Frequency (Hz)	50-60
Power Factor	>0.8
Operating Temperature (°)C	-20° to 45°
Storage Temperature (°)C	-40° to 85°

*** Price range from RM35 to RM63**

LED Spotlights

VIRIBRIGHT™ LED Spotlights are a direct replacement for 40-60W halogen bulbs and provides up to 85% energy savings over halogen. With long life, low energy consumption, no hazardous mercury, VIRIBRIGHT™ LED Spotlights are setting the benchmark for price and performance.

General Specifications	4.5W
Base Type	MR16
Color Temperature (K)	2800 / 4000 / 6000
Lumen (Lm) 2800K	200 / 300
4000K	220 / 400
6000K	220 / 400
CRI	>80
Beam Angle (°)	60° / 80°
Dimmable	No
Lifespan	Up to 25,000 hrs
Certification	CE/UL Pending CE & UL



Electrical Characteristics	
Wattage	4.5W
Voltage	12V AC / DC
Working Frequency (Hz)	50-60
Power Factor	>0.8
Operating Temperature (°)C	-20° to 45°
Storage Temperature (°)C	-40° to 85°

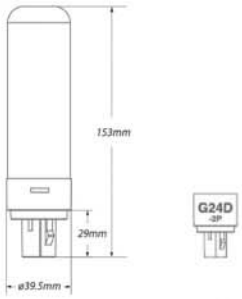
*** Price range from RM30**

For more information (603) 6188 8388 ysl@yslsb.com.my

LED PLC Lamp

VIRIBRIGHT™ LED PLC Lamp is direct replacement for 13W CFL PLC Lamp. With long life, low energy consumption, no hazardous mercury, VIRIBRIGHT™ LED PLC Lamp is setting the benchmark for price and performance.

NEW



General Specifications

Base Type		G24D-2P
Color Temperature (K)		2800 / 4000 / 6000
Lumen (Lm)	2800K	600
	4000K	700
	6000K	700
CRI		>80
Beam Angle (°)		90° (Rotary)
Lifespan		Up to 25,000 hrs
Certification		Pending CE and UL

Electrical Characteristics

Wattage	7.5W
Voltage	220-240V AC
Working Frequency (Hz)	50-60
Power Factor	>0.9
Operating Temperature (°)C	-20° to 45°
Storage Temperature (°)C	-40° to 85°

*** Price range from RM50**

LED Downlight

VIRIBRIGHT™ LED Downlight is a direct replacement for 50-60W halogen and 9-13W CFL downlight and provides up to 85% energy savings over halogen. With long life, low energy consumption, no hazardous mercury, VIRIBRIGHT™ LED Downlight is setting the benchmark for price and performance.

NEW

General Specifications

Base Type		AC Terminal GU10
Color Temperature (K)		2800 / 4000 / 6000
Lumen (Lm)	2800K	550
	4000K	700
	6000K	700
CRI		>80
Beam Angle (°)		80°
Lifespan		Up to 25,000 hrs
Certification		Pending CE & UL

Electrical Characteristics

Wattage	8W
Voltage	220-240V AC
Working Frequency (Hz)	50-60
Power Factor	0.9
Operating Temperature (°)C	-20° to 45°
Storage Temperature (°)C	-40° to 85°

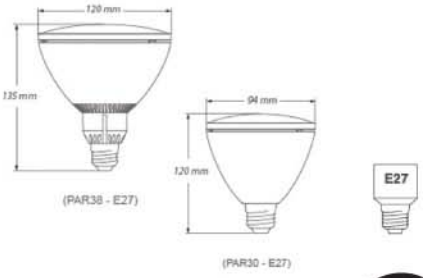
*** Price range from RM70**

Dimmable

For more information (603) 6188 8388 ysl@yslsb.com.my

LED PAR Lamp

VIRIBRIGHT™ LED PAR lamps are a direct replacement for 60-100W incandescent and 13-25W CFL bulbs and provides up to 85% energy savings over incandescent. With long life, low energy consumption, no hazardous mercury, VIRIBRIGHT™ LED PAR lamp are setting the benchmark for price and performance.



General Specifications	PAR38	PAR30	PAR16
	IP65 / IP20	IP20	IP20
Base Type		E27	
Color Temperature (K)		2800 / 4000 / 6000	
Lumen (Lm) 2800K	1300	550	200
4000K	1500	700	220
6000K	1500	700	220
CRI		>80	>80
Beam Angle (°)		90°	140°
Lifespan		Up to 25,000 hrs	
Certification		Pending CE/UL	

Electrical Characteristics

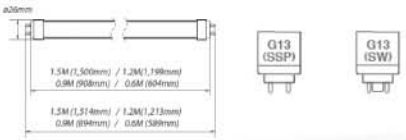
Wattage	18W / 10W / 4.5W
Voltage	220-240V AC
Working Frequency (Hz)	50-60
Power Factor	>0.9
Operating Temperature (°)C	-20° to 45°
	-40° to 85°

* Price range from RM35 to RM110

Dimmable

T8 LED Tubes

The unique design of VIRIBRIGHT™ T8 LED Tubes is setting the benchmark for price and performance. It is offered in both safety switched and single side powered versions which are compatible to the majority of fixtures in the market.



General Specifications		Electrical Characteristics	
Base Type	G13	Wattage	18W / 10W / 4.5W
Color Temperature (K)	2800	Voltage	220-240V AC
Lumen (Lm)	750	Working Frequency (Hz)	50-60
CRI	>80	Power Factor	>0.9
Beam Angle (°)	140°	Operating Temperature (°)	-20° to 45°
Lifespan	Up to 25,000 hrs	Storage Temperature (°)	40° to 85°
Certification	CE / UL		

* Price range from RM110 to RM160

VIRIBRIGHT Dimmer

VIRIBRIGHT™ is design to be fully compatible with the VIRIBRIGHT™ dimmable LED lighting products and most of the dimmable LED lighting devices in the market. Without flickering, light dropping out, VIRIBRIGHT™ Dimmer can keep the lights on even with line voltage fluctuations. VIRIBRIGHT™ Dimmer is setting the benchmark for price and performance.

General Specifications

Switch Type	Push ON/OFF Rotate to adjust light level
Compatible Lighting Devices	Dimmable LED Bulbs / Incandescent Bulbs
Load	Adjust Min. load
Operating Voltage	200-240 AC, 110-120V AC, 2A
Maximum Power	200W
Control Type	Single Pole (One Location)
Configuration	Leading Edge or Trailing Edge
Available Color	White / Ivory

* Price range from RM30

For more information (603) 6188 8388 ysl@yslsb.com.my

Deco Light

LED copper wire string lights

POWER SUPPORT	2*AA or 3*AA batteries
GRADE OF WATERPROOF	IP20
LENGTH	130cm
LED QTY	20pcs
LED SPACE	5.6cm
DIAMETER OF WIRE	0.4mm
DIAMETER OF LED BEAD	about 2.2mm
WIRE COLOR	Available in Copper

Available LED colour

Christmas Tree — P/N: ZX005W/G

Snowflake — P/N: ZX004W/L

Star — P/N: ZX002W/L

Gemstone — P/N: ZX006W/L/G/R

Bead — P/N: PT005W, PT001L, PT002G, PT007R

Heart — P/N: ZX003W/R

Features:
1. Battery powered LED fairy lights string
2. 130cm of copper cable
3. No more power sockets needed
4. Stay cool to the touch

LED large vine string lights

POWER SUPPORT	Transformer
GRADE OF WATERPROOF	IP20
LED QTY	360pcs
LED SPACE	5.6cm
DIAMETER OF WIRE	0.4mm
DIAMETER OF LED BEAD	about 2.2mm
WIRE COLOR	Available in Copper

Available LED colour

Christmas Tree — P/N: ZD005W/G

Snowflake — P/N: ZD004W/L

Star — P/N: ZD002W/L, ZD021R

Gemstone — P/N: ZD006R/W/L/G

Bead — P/N: SD005W, SD001L, SD002G, SD007R, SD004Y

Features:
1. Transformer powered LED fairy lights Long string
2. The Max. Qty of bulbs are 360 LEDs per string, Octagonal shape LED Cover
3. Waterproof, low power consumption and environment friendly
4. Stay cool to the touch

Description & Application:

Ideal decoration for Christmas, Halloween, New Year, Valentines Day, parties and weddings etc, can be placed in Christmas Tree, living room, bedroom, stairway, yard, gardon and anywhere else your imagination let you.

They will look great as part of your overall theme on book cases, around picture frames, around doors or windows and they even make a really pretty and safe night light for your children's bedroom. Also with no mains power they are 100% safe around pets and your loved ones.

These LED fairy lights stay cool to the touch and never get hot, so perfect for use in fabrics, flowers and around your furniture. It is best choice for Stores showcase and corner decoration.

LED Deco Tree Lights

Available LED colour

Bead

POWER SUPPORT 3*AA batteries

P/N: DZ005W, DZ001L, DZ002G, DZ007R, DZ004Y

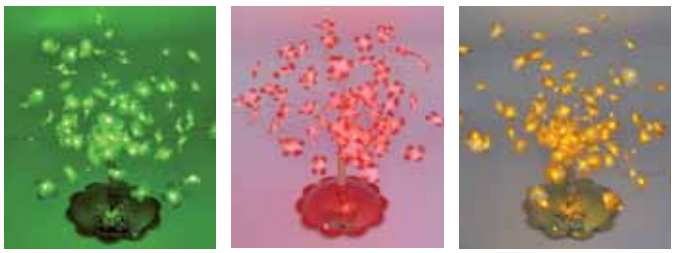
LED ribbon bow lights

Available LED colour

POWER SUPPORT 2*CR2032 batteries

P/N: DH005W, DH002G, DH007R, DH004Y

LED Mini Fabric Tree Lights



Available LED colour

POWER SUPPORT 3*AA batteries

P/N: HD002G, HD007R, HD004Y

Features:
Low temperature, long working life, 360° lighting angle, strong mouldability, widely used.

LED SPACE	5.6cm
DIAMETER OF COPPER WIRE	0.4mm and 0.5mm
DIAMETER OF LEDS	2.2mm
WIRE COLOR	Available in Copper

For more information (603) 6188 8388 ysl@yslsb.com.my

Tire Selection Process

Tread Design Selection

The selection of the proper tread design for an intended application is very important to the fleet that wishes to obtain the maximum potential from tires and thereby lower tire expenses.

Selection of the proper tread design is not an exact science, but there are certain general rules and guidelines which, if followed, can lead to selecting a tread design that will give the maximum desired performance for the service application in a particular fleet. In order to help select the right tread design, refer to Technology & Maintenace Council RP (Recommended Practice) 220, *Tire Tread Design Selection.*

Fleet Operation Considerations

When evaluating the many tire options available for any given vehicle application, there are numerous management considerations in addition to the mechanical considerations already covered. While these considerations apply most directly when spec'ing out new equipment, they also can be used to reevaluate tire selection prior to tire replacement.

Fleet Operation Considerations

- availability of various products and service maintenance
- tire purchase price vs. performance (cost-per-mile)
- financial inventory investment and space requirements
- maintenance training for personnel
- retreadability/repairability costs and servicing
- warranty and adjustment servicing
- leading edge or "experimental" product availability
- effects of non-standardization
- effects of tire down-sizing on vehicle gearing and braking
- timing for phase-in or change over programs
- legal or contractual requirements

Retreadable Tires

Retreading your worn tires or purchasing retreads from a dealer can provide new tire service and performance at a fraction of the cost of a new tire.

When selecting new tires, purchase those that are designed to be retreadable.

To insure retreadability, follow prescribed maintenance and avoid regrooving which may damage the valuable casing.

Retreaded Tire Considerations

- provide equivalent service and performance
- reduce overall cost-per-mile
- conserve natural resources
- tread designs available for all applications

Figure 2.2: Tire Construction

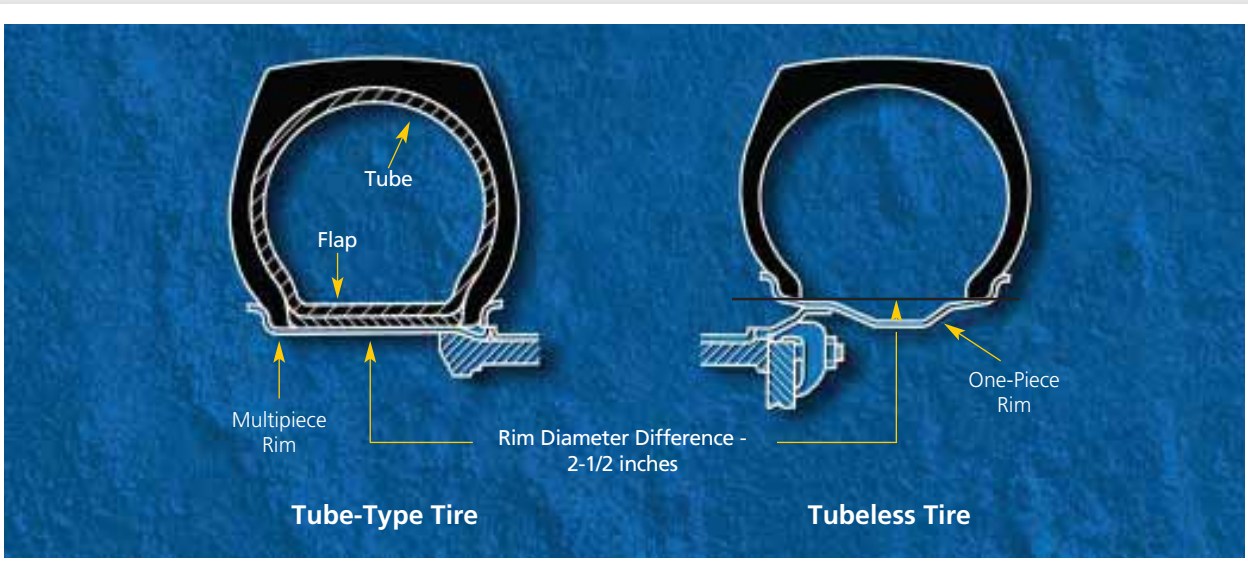


Figure 2.3: Overall Width, Dual Tires

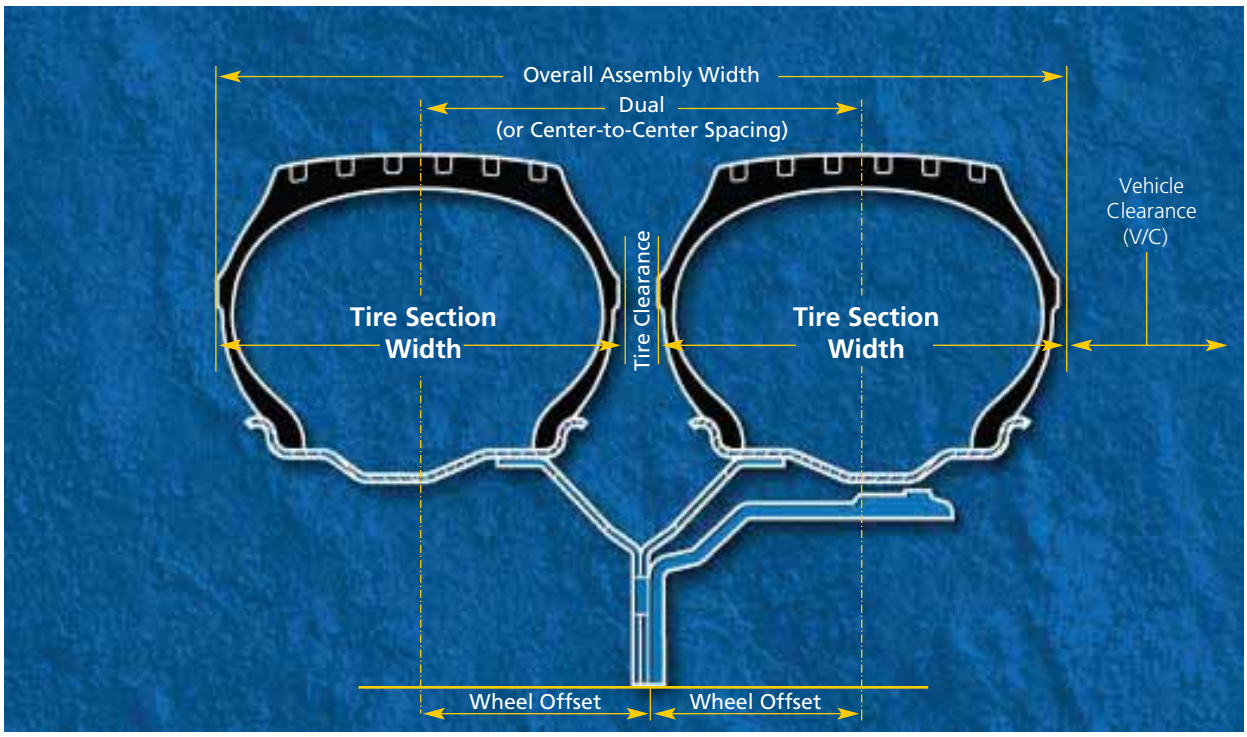
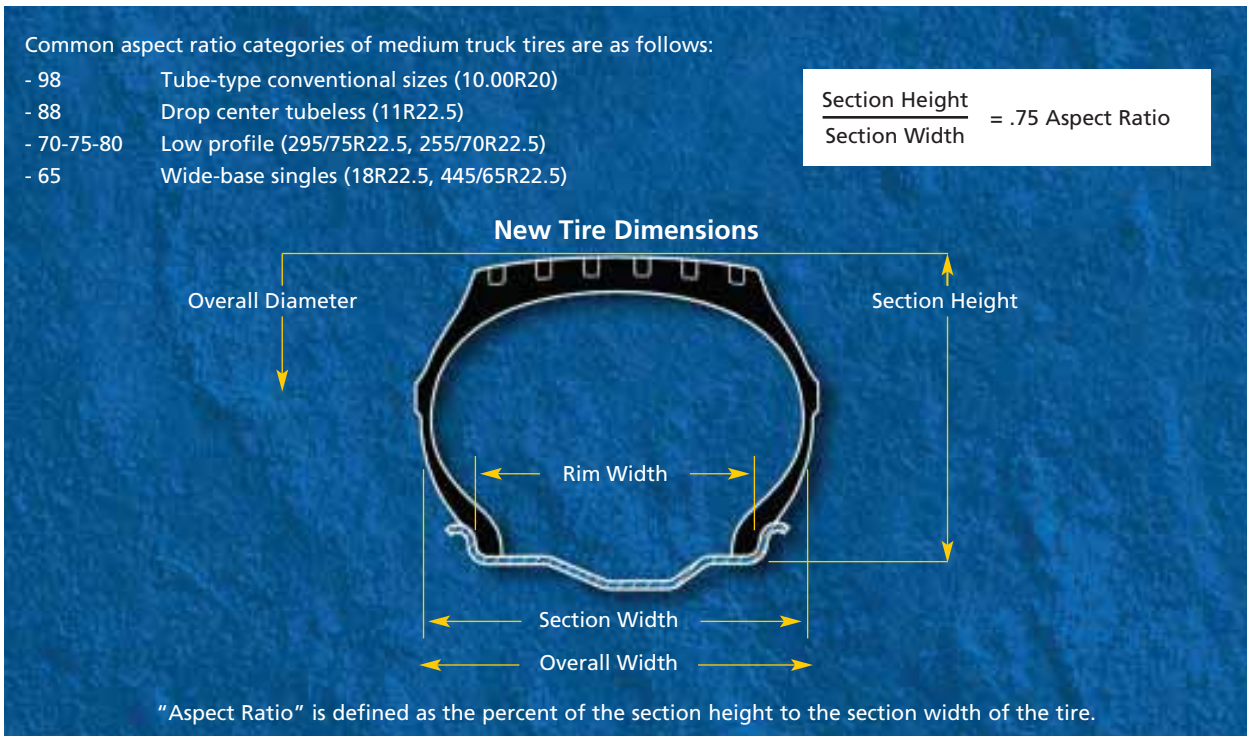
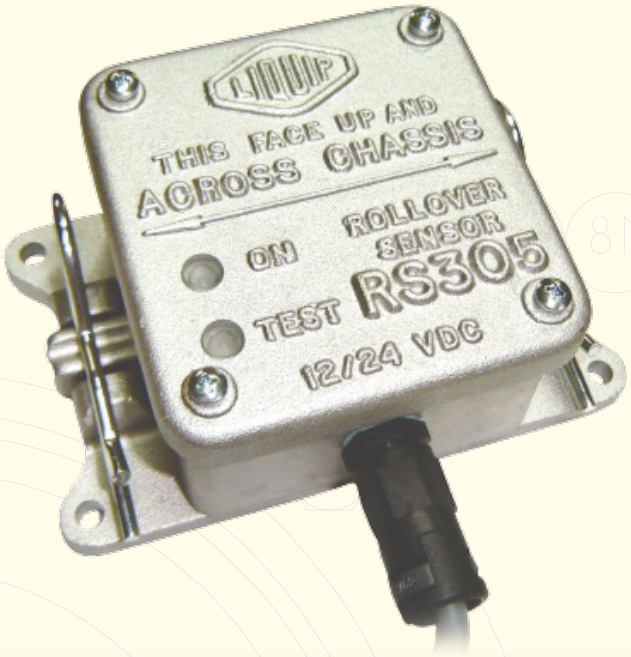


Figure 2.4: Aspect Ratio


Common aspect ratio categories of medium truck tires are as follows:
- 98 Tube-type conventional sizes (10.00R20)
- 88 Drop center tubeless (11R22.5)
- 70-75-80 Low profile (295/75R22.5, 255/70R22.5)
- 65 Wide-base singles (18R22.5, 445/65R22.5)
Section Height / Section Width = .75 Aspect Ratio
New Tire Dimensions
Overall Diameter
Section Height
Rim Width
Section Width
Overall Width
"Aspect Ratio" is defined as the percent of the section height to the section width of the tire.

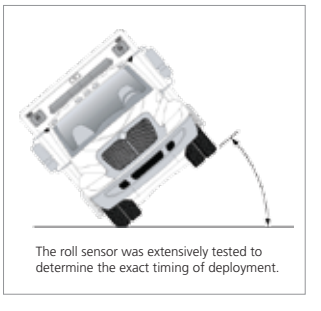
GOODYEAR
Radial Truck Tire & Retread Service Manual
Section 2
• Tire Selection

RS305 ROLLOVER SENSOR



The Roll-Over Sensor minimises the risk of electrically ignited fires occurring in tanker accidents involving roll-over. In the event of a tanker tilting more than 45° from the horizontal, power from the truck battery to all electrical equipment is cut to remove possible source of product ignition that may cause fire or explosion.

The sensor is also used to operate a Liquip engine strangler to ensure the truck motor stops



The roll sensor was extensively tested to determine the exact timing of deployment.

HOPS will not deploy during a frontal or side-impact crash. A roll sensor calculates both the angle of the vehicle and the speed at which it's rolling to determine when to fire the airbag restraints.

PURPOSE:
Designed to meet AS2809, "Purpose built road tank vehicles designed to carry dangerous goods in bulk shall be fitted with a rollover device which automatically shuts down the engine and all power sources in the case of a rollover, by activating the battery isolation switch. The device shall not be activated at less than 45° to the vertical."

In the event of a tanker tilting more than 45° from the horizontal, power from the truck battery to all electrical equipment is cut to remove possible source of product ignition that may cause fire or explosion.

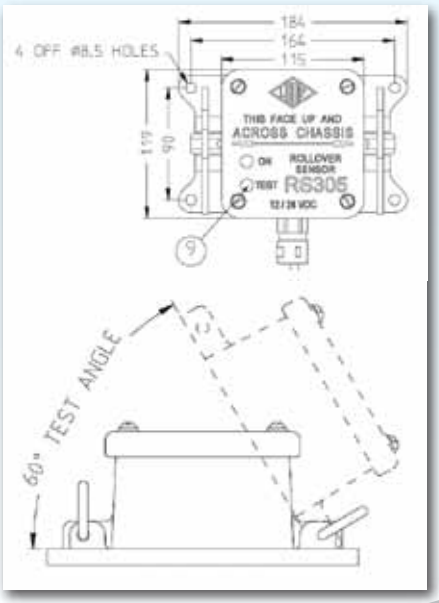
The sensor is also used to operate a Liquip engine strangler to ensure the truck motor stops.

ADJUSTMENT OR SERVICE:
Sensor testing is recommended when standard maintenance is carried out on the tanker (typically every six months).

A hinging base is provided to provide simple testing of the sensor. Remove one of the humpback pins and tilt the sensor body until it reaches the stop. At this point all electrical circuits will have no voltage and truck engine will stop.

A unique "self diagnosis" tool indicates rollover sensor functionality. A steady bright green LED indicates the rollover sensor is horizontal and functional. A steady bright red LED indicates the rollover sensor is tilted past its activation angle.

TECHNICAL DATA:
- Operating voltage range: 9V to 30V DC.
- Operating temperature range: -20degC to +80degC.
- Complies to Australian Standard AS2809 -1999.
- IP67 rated.
- Reverse polarity protected.
- Immune to power surges and outages.
- If the sensor loses power, it won't actuate the emergency mains switch



HOENIX™

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ISO 9001 : 2008
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